Application No.: 09/066.898 Docket No.: 10011143-1 47429-00073USPT

AMENDMENTS TO THE CLAIM

1	1. (currently amended) A method for time aligning first and second signals, comprising:
2	modulating said second signal by said first signal to provide a third signal; and
3	determining frequency components component strengths of said third signal, said
4	frequency eomponents component strengths being indicative of time alignment between said
5	first signal and said second signal signals, wherein said step of determining frequency
6	component strengths of said third signal comprises;
7	filtering said third signal to provide a filtered signal while sweeping said
8	second signal through a time delay; and
9	detecting a level of said filtered signal, said level being indicative of time
10	alignment between said first signal and said second signal, said step of detecting a level of said
11	filtered signal comprises:
12	first detecting when said filtered signal is at a minimum level
13	during said sweeping, said minimum level occurring at a first time delay value;
14	second detecting when said filtered signal is next at said minimum
15	level during said sweeping, said next minimum level occurring at a second time delay value; and
16	setting a time delay value for said second signal at a delay value
17	between said first time delay value and said second time delay value;
18	wherein said first signal comprises a data signal encoded in a predetermined bit
19	pattern in a Non-Return-to-Zero signal format, said second signal comprises a Return-to-Zero
20	pulse signal having a frequency equal to a data interval of said first signal, and said third signal
21	comprises a data signal in which said data is encoded in a Return-to Zero signal format.

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1 2. - 4. (cancel)

- 5. (currently amended) The method according to Claim [[4]] 1, wherein said step of
- 2 detecting a level of said filtered signal <u>further</u> comprises:
- 3 converting said filtered signal to a DC voltage signal; and
- 4 measuring a voltage level of said DC voltage signal.
- 1 6. (cancel)
- 7. (currently amended) The method according to Claim [[6]] 1, wherein said first and
- 2 second detecting steps comprise converting said filtered signal to a DC voltage signal, and
- detecting the voltage level of said DC voltage signal during said sweeping.
- 8. (original) The method according to Claim 1, wherein said first signal and said
- 2 second signal are in correct time alignment when a fundamental frequency of said third signal
- 3 equals one-half the frequency of said second signal.
- 9. (currently amended) The method according to Claim [[4]] 1, wherein said step of
- 2 filtering <u>further</u> comprises filtering said third signal with a low pass filter.
- 1 10. (original) The method according to Claim 1, wherein said first and second signals
- 2 comprise optical signals.
- 3 11.-20. (cancel)

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1	21. (new) An apparatus for time aligning a first signal and a second signal, said first
2	signal being a Non-Return-to-Zero data test signal and said second signal being a Return-to-Zero
3	pulse signal, said apparatus comprising:
4	a modulator for modulating said second signal with said first signal to provide a
5	third signal;
6	a filter for filtering said third signal to provide a filtered signal, said filter filters
7	said third signal while sweeping said second signal through a time delay range; and
8	a detector for detecting a fundamental frequency of said third signal, said detector
9	detecting when said filtered signal is at a minimum level at a first delay value, said detector
10	further detecting when said filtered signal is next at said minimum level at a second delay value
11	said detector further providing a delay value for said second signal being at a time delay value
12	between said first time delay value and said second time delay value.